



Controlled Release Society Indian Chapter

One Day National Seminar on

Translational Research: From Bench to Bedside

Sunday, 17th November, 2019

SOUVENIR & ABSTRACT BOOK

Organized by -

All Pharmacy Colleges

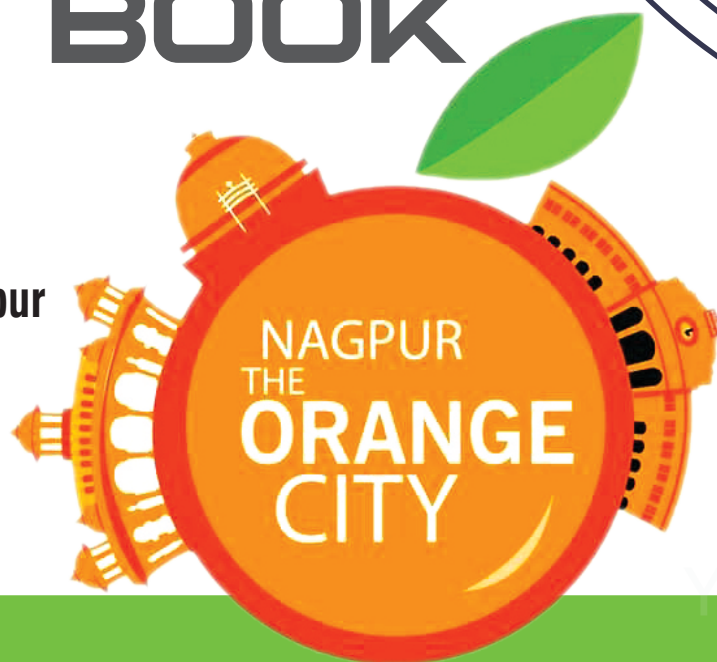
Affiliated to R.T.M. Nagpur University, Nagpur

Venue :

Hotel Tuli Imperial

Ramdaspath,

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SOUVENIR

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FORMULATION, DEVELOPMENT AND EVALUATION OF ANTI-INFLAMMATORY GEL CONTAINING ESSENTIAL OILS AND DICLOFENAC SODIUM

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Abstract:

Aim: The present research work was aimed to develop an anti-inflammatory gel containing essential oils and Diclofenac Sodium. **Objective:** To formulate a gel with a combination of Diclofenac sodium and essential oils and to check its anti-inflammatory activity. **Method:** The anti-inflammatory gels were formulated by using different grades of Carbopol in different concentrations. It was optimized on the basis of pH, viscosity, and spreadability. Optimized formulation was subjected to anti-inflammatory study by using rat paw edema method. **Results and discussion:** All formulations showed satisfactory parameters like pH, viscosity, and spreadability. Topical application of formulated gel showed significant anti-inflammatory activity. **Conclusion:** Anti-inflammatory activity of formulated gel containing essential oil increases the anti-inflammatory activity of Diclofenac. It can be concluded that essential oils can be used in combination with Diclofenac to enhance the anti-inflammatory effect.

Keywords

Diclofenac, Citronella oil, Catnip oil, Kaffir lime oil.

